

Application No.: NOT YET ASSIGNED

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) Insulating element in the form of a plate or roll felt for shipbuilding, from mineral fibers, bound in a physiological agent, especially insulating element, utilized as fire and/or thermal-and/or sound protection, characterized in that the composition of the mineral fibers of the insulating element amounts to an alkali/alkaline-earth mass ratio of < 1 and the fiber structure of the insulating element is determined exempt of beads as well as by an average geometrical fiber diameter of $\leq 4 \mu\text{m}$, a surface weight of $[[0,8]]$ 0.8 through $[[4,3]]$ 4.3 kg/m^2 and a portion of bonding agent, which referred to the fiber mass of the insulating elements is in the range above $[[0,5]]$ 0.5 through 4 weight %.

2. (Original) Insulating element according to claim 1, characterized in that the bonding agent is an organic bonding agent.

3. (Currently Amended) Insulating element according to claim 1 $[[\text{or } 2]]$, characterized in that the portion of the bonding agent, related to the fiber mass of the insulating element, lies within the range of $[[0,5]]$ 0.5 to 3 weight %, in particular 0.5 to 2 weight %.

4. (Currently Amended) Insulating element according to claim 1, particularly for the insulation of the ship deck, characterized in that the surface weight with a Fire Resistance Category A15 or similar amounts to $[[0,8]]$ 0.8 to 1.4 kg/m^2 , preferably 1.2 kg/m^2 , with a Fire Resistance Category A30 or similar, from $[[1,2]]$ 1.2 to 1.8 kg/m^2 , preferably 1.6 kg/m^2 , and with a Fire Resistance Category A60 or similar, $[[2,0]]$ 2.0 to 2.5 kg/m^2 , preferably 2.3 kg/m^2 .

5. (Currently Amended) Insulating element according to claim 1, particularly for the insulation ship bulkhead, characterized in that the weight per unit area with a Fire Resistance Category A15 or similar amounts from $[[0,8]]$ 0.8 to 1.4 kg/m^2 , preferably 1.2 kg/m^2 , with a Fire Resistance Category A30 or similar, from $[[2,3]]$ 2.3 to 3.0 kg/m^2 , preferably 2.7 kg/m^2 , and with a Fire Resistance Category A60 or similar, from $[[3,2]]$ 3.2 to 4.3 kg/m^3 , preferably 4.0 kg/m^3 .

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6. (Currently Amended) Insulating element according to ~~one of the preceding claims~~ claim 1, by the fact characterized in that it features an λ -arithmetic procedure of ≤ 35 mW/mK.

7. (Currently Amended) Insulating element according to ~~one of the preceding claims~~ claim 1, by the fact characterized in that the bead portion in the fiber structure is < 1 %.

8. (Currently Amended) Insulating element according to ~~one of the preceding claims~~ claim 1, thereby characterized in that the insulating elements are compressible, at least for the purpose of their packing, in the minimum ratio of 1:2, in case of an upper gross density to 50 kg/m³ and in particular in the ratio of 1:3 in case of an upper gross density till 30 kg/m³.

9. (Currently Amended) Insulating element in the form of roll felt in accordance with preamble of claim 1, characterized in that the composition of the mineral fiber of the insulating element amounts to an alkali/alkaline-earth mass ratio of < 1 and the fiber structure of the insulating element is determined by an average geometrical fiber diameter of ≤ 4 μ m and the roll felt features the form of a stepped wire mat, whose utilization temperature is > 500 °C with gross densities between 45 and 75 kg/m³, especially between 55 and 65 kg/m³, and a bonding agent content < 2 weight %, especially between $[[0,5]]$ 0.5 and $[[1,5]]$ 1.5 weight %.

10. (Currently Amended) Insulating element according to ~~one of the preceding claims~~ claim 1, characterized in that the mineral fibers of the insulating element are manufactured by an internal centrifugation in the centrifuge basket procedure, with a temperature at the centrifugation basket of at least $[[1,100]]$ 1.100 °C.

11. (Currently Amended) Insulating element according to ~~one of the preceding claims~~ claim 1, characterized in that it is designed for surpassing insulation of vessel's frames.

12. (Original) Molded section according to claim 11, characterized in that the molded section features a lamination, like an aluminum foil or a glass cloth fleece, being applied in such a manner around the frames that it encloses these units in one processing step exempt of a thermal bridge.

13. (Currently Amended) Insulating element and/or molded element according to ~~one of the preceding claims~~ claim 1, characterized in that the mineral fibers of the insulating element and/or molded element, correspond, regarding their solubility in a physiological environment, to the

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requirements of the European guideline 97/69/EG and/or the requirements of the German dangerous material regulation exp. IV NR. 22.

14. (Currently Amended) Insulating element and/or molded element according to claim 13, characterized by the following ranges of the chemical composition of the mineral fibers:

SiO ₂	39 – 55 %	preferably	39 – 52 %
Al ₂ O ₃	16 – 27 %	preferably	16 – 26 %
CaO	6 – 20 %	preferably	8 – 18 %
MgO	1 – 5 %	preferably	1 – 4,9 %
Na ₂ O	0 – 15 %	preferably	2 – 12 %
K ₂ O	0 – 15 %	preferably	2 – 12 %
R ₂ O (Na ₂ O + K ₂ O)	10 – % [[14,7]] <u>14.7</u>	preferably	10 – % [[13,5]] 13.5
P ₂ O ₅	0 – 3 %	especially	0 – 2 %
Fe ₂ O ₃ (iron total)	[[1,5]] 1.5 - % 15	especially	[[3,2]] 3.2 % - 8
B ₂ O ₃	0 – 2 %	preferably	0 – 1 %
TiO ₂	0 – 2 %	preferably	[[0,4]] <u>0.4</u> % - 1
Other	0 – [[2,0]] % <u>2.0</u>		